

**PLATFORM PROGRAM  
GRAND RIVER CENTER, MEETING ROOM 6  
THURSDAY, APRIL 24, 2008**

7:50 – 8:00 AM Welcome and Announcements – **Brian Ickes**, MRRC President

**SESSION I – FISH** (Moderator: Brent Knights, UMESC)

8:00 – 8:20 AM EFFECT OF ELECTROFISHING CONFIGURATION ON CRAPPIE IMMOBILIZATION  
SUCCESS AND INJURY

**C.R. Dolan**<sup>1</sup>, L.E. Miranda<sup>2</sup>, and T.B. Henry<sup>3</sup>. <sup>1</sup>Department of Natural Resources, Lake Darling Station, Brighton, IA 52540 <sup>2</sup>Mississippi Cooperative Fish and Wildlife Research Unit, Mississippi State, MS 39762 <sup>3</sup>Department of Fisheries and Allied Aquacultures, Auburn University, AL 36849

8:20 – 8:40 AM TESTING THE FUNDAMENTAL ASSUMPTION UNDERLYING THE USE OF LTRMP FISH DATA: DOES VARIATION IN LTRMP CPUE DATA REFLECT VARIATION IN THE ABUNDANCE OF FISHES

**J.H. Chick**<sup>1</sup>, C.R. Dolan<sup>1</sup>, E.N. Ratcliff<sup>1</sup>, E.J. Gittinger<sup>1</sup>, V.A. Barko<sup>2</sup> and B.S. Ickes<sup>3</sup>. <sup>1</sup>Illinois Natural History Survey, Great Rivers Field Station, 8450 Montclair Ave, Brighton, IL 62012 <sup>2</sup>Missouri Department of Conservation, Open River and Wetlands Field Station, 3815 E. Jackson Blvd., Jackson, MO 63755 <sup>3</sup>U. S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, WI 54603

8:40 – 9:00 AM CENTRARCHID LATE FALL MOVEMENTS OBSERVED THROUGH ELECTROFISHING SURVEYS IN MISSISSIPPI RIVER POOLS 8, 10, AND 11

**J. Webster** and J. Janvrin. Wisconsin Department of Natural Resources, 3550 Mormon Coulee Road, La Crosse, Wisconsin, 54601

9:00 – 9:20 AM WINTER HABITAT USE BY BLUEGILL, CRAPPIE AND LARGEMOUTH BASS AND EVALUATION OF AN ENVIRONMENTAL MANAGEMENT PROGRAM HABITAT REHABILITATION AND ENHANCEMENT PROJECT

**M. Steuck**, D. Weiss and C. Schnitzler. Iowa Department of Natural Resources, Bellevue Fisheries Research & Management Station, 24143 Hwy 52, Bellevue, Iowa 52031

9:20 – 9:40 AM FIFTY YEARS OF THE LONG-TERM ILLINOIS RIVER FISH POPULATION MONITORING PROGRAM, 1957-2007

**M.A. McClelland**, G.G. Sass, T.R. Cook, K.S. Irons, T.M. O'Hara, C.S. Smith, N.N. Michaels, and M.R. Stroub. Illinois Natural History Survey, Illinois River Biological Station, 704 N. Schrader Ave., Havana, IL 62644

9:40 – 10:00 AM FISH ASSEMBLAGES IN OFF-CHANNEL AREAS OF THE UPPER MISSISSIPPI RIVER SYSTEM

**B.C. Knights**<sup>1</sup>, B. S. I.<sup>1</sup>, J.N. Houser<sup>1</sup>, and M.C. Bowler<sup>2</sup>, <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, WI 54603 <sup>2</sup>Iowa Department of Natural Resources, 206 Rose Street, Bellevue, IA, 52031

10:00 – 10:20 AM **BREAK**

**SESSION II – NON-NATIVE SPECIES** (Moderator: Greg Sass, INHS)

10:20 – 10:40 AM IDENTIFICATION OF HABITAT CONDITIONS INFLUENCING NON-NATIVE ASIAN CARPS REPRODUCTION IN THE UPPER MISSISSIPPI RIVER SYSTEM

**T.M. O'Hara**, K.S. Irons, G.G. Sass, T.R. Cook, M.A. McClelland, N.N. Michaels, and M.R. Stroub. Illinois River Biological Station, Illinois Natural History Survey, 704 N. Schrader Ave., Havana, Illinois 62644

10:40 – 11:00 AM ENVIRONMENTAL AND ECONOMIC IMPACTS OF ASIAN CARPS IN THE ILLINOIS RIVER

**G.G. Sass**, T.R. Cook, K.S. Irons, M.A. McClelland, N.N. Michaels, T.M. O'Hara, and M.R. Stroub. Illinois River Biological Station, Illinois Natural History Survey, 704 North Schrader Avenue, Havana, Illinois 62644

**KEYNOTE PRESENTATION**

11:00 – 11:50 AM A PASSION FOR THE RIVER: MAYO AND THE MISSISSIPPI

**Matthew D. Dacy**, Director, Heritage Hall, The Museum of Mayo Clinic, Mayo Clinic, 200 First St. S.W., Rochester, MN 55905

11:50 – 1:00 PM **LUNCH** (on your own) & **BEHIND THE SCENES TOURS AT THE NATIONAL MISSISSIPPI RIVER MUSEUM AND AQUARIUM**

**SESSION III – MUSSELS AND TURTLES** (Moderator: Jennifer Sauer, UMESC)

1:00 – 1:20 PM POSSIBLE HYBRIDIZATION BETWEEN *GRAPTEMYS PSEUDOGEOGRAPHICA* AND *G. OUACHITENSIS* ALONG THE CEDAR RIVER, IOWA AND THE MISSISSIPPI RIVER

**A. Huck**, J. Lamer, S. Jenkins, and M. Romano. Western Illinois University Department of Biological Sciences Macomb, IL 61455

1:20 – 1:40 PM INVESTIGATION OF WATERBIRD DIE-OFFS ON THE UPPER MISSISSIPPI RIVER

NATIONAL WILDLIFE AND FISH REFUGE

**J. Sauer**<sup>1</sup>, R. Cole<sup>2</sup>, J. Nissen<sup>3</sup> and E. Britton<sup>4</sup>. <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, Wisconsin <sup>2</sup>U.S. Geological Survey, National Wildlife Health Center, 6006 Schroeder Rd, Madison, Wisconsin <sup>3</sup>U.S. Fish and Wildlife Service, Upper Mississippi River National Wildlife and Fish Refuge, 555 Lester Avenue, La Crosse, Wisconsin <sup>4</sup>U.S. Fish and Wildlife Service, Upper Mississippi River National Wildlife and Fish Refuge, 7071 Riverview Road, Thomson, Illinois

1:40 – 2:00 PM EVALUATION OF SAMPLING DESIGNS FOR ESTIMATING MUSSEL ABUNDANCES ASSOCIATED WITH HABITAT PROJECTS

**J. Rogala**<sup>1</sup>, D. Smith<sup>2</sup>, B. Gray<sup>1</sup>, S. Zigler<sup>1</sup>, and T. Newton<sup>1</sup>. <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54602 <sup>2</sup>U.S. Geological Survey, Leetown Science Center, Kearneysville, WV 25430

2:00 – 2:20 PM SURPRISES AND CHALLENGES: ALLOCHTHONOUS DRIFT AND HYPORHEIC MUSSELS

**Jim Eckblad**

Department of Biology, Luther College, Decorah, IA 52101

2:20 – 2:40 PM FOLLOW-UP ON TRANSLOCATED *ALASMIDONTA MARGINATA* FROM THE SOUTH FORK OF THE ZUMBRO RIVER, ROCHESTER, MINNESOTA

**M.E. Havlik**. Malacological Consultants, La Crosse, WI 54601-4969

2:40 – 3:00 PM **BREAK**

**SESSION IV – HYDROLOGY, WATER QUALITY AND PRIMARY PRODUCERS** (Moderator: Eric Strauss, UW-L)

3:00 – 3:20 PM THREE DECADES OF WATER QUALITY CHANGE (1976-2005) IN THE MISSISSIPPI NATIONAL RIVER AND RECREATION AREA

**B. Moraska Lafrancois**<sup>1</sup>, S. Magdalene<sup>2</sup>, D.K. Johnson<sup>3</sup>. <sup>1</sup>National Park Service, Marine on St. Croix, MN 55047 <sup>2</sup>St. Croix Watershed Research Station, Marine on St. Croix, MN 55047 <sup>3</sup>Metropolitan Council Environmental Services, St. Paul, MN 55101

- 3:20 – 3:40 PM THE LASTING EFFECTS OF THE GREAT MIDWEST FLOOD OF 1993 ON THE FLOODPLAIN FOREST OF THE UPPER MISSISSIPPI RIVER  
**Y. Yin**<sup>1</sup>, R. Cosgriff<sup>2</sup>, D. Henderson<sup>3</sup>, and J. Lundh<sup>4</sup>. <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, WI 54603  
<sup>2</sup>Illinois Natural History Survey, Great River Field Station, Brighton, IL 62012 <sup>3</sup>Missouri Department of Conservation, Open Rivers Wetlands Field Station, Jackson, MO 63755  
<sup>4</sup>US Army Corps of Engineers, Mississippi River Project Rock Island District, Pleasant Valley, IA 52767
- 3:40 – 4:00 PM THE POWER OF A RECORD RAIN EVENT AUGUST 18-19, 2007, POOLS 6-11, UPPER MISSISSIPPI RIVER  
**T. Dukerschein**, S. Giblin, and H. Langrehr. WI Department of Natural Resources  
Mississippi River Monitoring Field Station, 2630 Fanta Reed Road, La Crosse, WI 54603
- 4:00 – 4:20 PM LOSS OF SOUTHERN WILD RICE POPULATIONS THROUGHOUT THE ILLINOIS RIVER VALLEY: NARROW PHYSIOLOGICAL TOLERANCES OR LOSS OF SUITABLE HYDROLOGICAL REGIMES?  
**B.R. Dalrymple**<sup>1</sup>, K.L. Dalrymple<sup>2</sup> and D.A. Wait<sup>1</sup>. <sup>1</sup>Department of Biology, Missouri State University, Springfield, Missouri 65897 <sup>2</sup>Wildlife Biologist, Annada, Missouri 63330
- 4:20 – 4:40 PM NORTH-TO-SOUTH POSITION OF COUNTIES ALONG THE MISSISSIPPI RIVER CORRELATED WITH SELECTED OUTCOMES  
**J. Hart**. Sherman College of Straight Chiropractic, P.O. Box 1452, Spartanburg, SC 29304
- 4:40 – 5:00 PM OTOLITH MICROCHEMISTRY AND STABLE ISOTOPIC COMPOSITION AS INDICATORS OF ENVIRONMENTAL HISTORY FOR MIDDLE MISSISSIPPI RIVER FISHES  
**G.W. Whitedge** and J.M. Zeigler. Fisheries and Illinois Aquaculture Center, Southern Illinois University, Carbondale, IL 62901-6511
- 5:00 – 6:00 PM **POSTER SESSION IN THE RIVERFRONT CONCOURSE**
- 6:30 – 9:00 PM **BANQUET & BEHIND THE SCENES TOURS AT THE NATIONAL MISSISSIPPI RIVER MUSEUM AND AQUARIUM**

**SPECIAL MRRC SYNTHESIS PROGRAM  
{WHERE HAVE WE BEEN, WHERE ARE WE GOING?}  
GRAND RIVER CENTER, MEETING ROOM 4  
FRIDAY, APRIL 25, 2008**

8:20 – 8:30 AM Morning Welcome and Announcements – **Brian Ickes**, MRRC President

**SESSION V – A SYNTHESIS OF UPPER MISSISSIPPI RIVER RESEARCH** (Moderator: Ron Rada, UW-L)

8:30 – 8:50 AM HYDROLOGIC AND HYDRAULIC DRIVERS OF THE UPPER MISSISSIPPI RIVER ECOSYSTEM

**C. Theiling**. U.S. Army Corps of Engineers, Rock Island District, PO Box 2004, Clock Tower Bldg., Rock Island, IL 61204

8:50 – 9:10 AM NUTRIENTS IN THE UPPER MISSISSIPPI RIVER: TRANSPORT, PROCESSING, AND EFFECTS ON THE RIVER

**J.N. Houser and W.B. Richardson**. USGS Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, WI 54601

9:10 – 9:30 AM SYNTHESIS OF UPPER MISSISSIPPI RIVER SYSTEM VEGETATION: PAST, PRESENT, AND FUTURE

**S.P. Romano**<sup>1</sup>, Y. Yin<sup>2</sup>, M. Moore<sup>3</sup>, and T. Cook<sup>4</sup>. <sup>1</sup>Institute for Environmental Studies, Western Illinois University-Quad Cities, Moline, Illinois 61265 <sup>2</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54603 <sup>3</sup>Mississippi River Field Station, Minnesota Department of Natural Resources, Lake City, MN 55401 <sup>4</sup>Illinois River Biological Station, Illinois Natural History Survey, Havana, Illinois 62644

9:30 – 9:50 AM 100 YEARS OF MACROINVERTEBRATE SAMPLING ON THE MISSISSIPPI RIVER: WHAT HAVE WE LEARNED?

**R.V. Anderson**<sup>1</sup>, T.J. Newton<sup>2</sup>, M. Whiles<sup>3</sup>, and J.W. Grubaugh<sup>4</sup>. <sup>1</sup>Dept of Biological Sciences, Western Illinois University, Macomb, IL <sup>2</sup>USGS, Upper Midwest Environmental Sciences Center, La Crosse, WI <sup>3</sup>Middle Mississippi River Wetland Field Station, Department of Zoology and Center for Ecology, Southern Illinois University, Carbondale, IL <sup>4</sup>Edward J. Meeman Biological Field Station, Department of Biology, University of Memphis, Memphis, TN

9:50 – 10:10 AM STUDYING AND MANAGING GREAT RIVER FISHERIES: THE UPPER MISSISSIPPI RIVER EXPERIENCE

**B.S. Ickes**<sup>1</sup> and J. Garvey<sup>2</sup>. <sup>1</sup>US Geological Survey, Upper Midwest Environmental Science Center, La Crosse, WI <sup>2</sup>Southern Illinois University, Carbondale, IL

10:10 – 10:30 AM HISTORICAL RESEARCH ON REPTILES AND AMPHIBIANS OF THE MISSISSIPPI RIVER: THE NECESSITY OF FUTURE LONG-TERM STUDIES

**J.T. Lamer**<sup>1</sup>, J.K. Tucker<sup>2</sup>, and M.A. Romano<sup>1</sup>. <sup>1</sup>Department of Biological Sciences, Western Illinois University, 1 University Circle, Macomb, IL, 61455 <sup>2</sup>Great Rivers Field Station, Illinois Natural History Survey, 8450 Montclair Avenue, Brighton, Illinois 62012-2032

10:30 – 10:50 AM **BREAK**

**SESSION V (Continued) – A SYNTHESIS OF UPPER MISSISSIPPI RIVER RESEARCH** (Moderator: Ron Rada, UW-L)

10:50 – 11:10 AM TOWARD A BETTER UNDERSTANDING OF TROPHIC DYNAMICS OF RIVER ECOSYSTEMS

**M.D. Delong**. Large River Studies Center, Biology Department, Winona State University, Winona, MN 55987

11:10 – 11:30 AM CONTAMINANTS IN THE UPPER MISSISSIPPI RIVER: HISTORIC TRENDS, PRESENT STATUS, AND EMERGING CONCERNS

**J. Wiener and M.B. Sandheinrich**. University of Wisconsin - La Crosse, River Studies Center, 1725 State Street La Crosse, Wisconsin 54601

11:30 – 11:50 AM ADVANCING RESTORATION SCIENCE ON THE UPPER MISSISSIPPI RIVER  
**K.S. Lubinski**. U. S. Geological Survey, Upper Midwest Environmental Sciences  
Center, La Crosse, WI 54603

11:50 AM – 12:50 PM ROUND TABLE WITH SYNTHESIS PLATFORM PRESENTORS (Moderator: Susan  
Romano, WIU)

12:50 – 1:50 PM **LUNCH**

1:50 – 2:30 PM **BUSINESS MEETING**

2:30 – 3:10 PM **RAFFLE AND SILENT AUCTION**

3:10 – 4:10 PM **FORUM ON RESEARCH COLLABORATION WITH THE NATIONAL MISSISSIPPI RIVER  
MUSEUM & AQUARIUM**

**POSTER PRESENTATIONS**  
**THE RIVERFRONT CONCOURSE**  
**THURSDAY APRIL 24, 2008 12:00 PM – 6:00 PM**  
Authors Present 5:00 PM – 6:00 PM  
(Listing by Topic)

**WATER QUALITY**

- 1) PARTNERSHIP IMPROVES REGIONAL DISPOSAL OF UNWANTED MEDICATIONS  
**M. Steingraeber**<sup>1</sup>, J. Kruse<sup>2</sup>, and J. Gloyd<sup>3</sup>. U.S. Fish and Wildlife Service, National Fish and Wildlife Conservation Office, Onalaska, WI 54650 <sup>2</sup>Mayo Health System, Franciscan Skemp Healthcare, La Crosse, WI 54601 <sup>3</sup>La Crosse County Solid Waste Department, Hazardous Materials Program, La Crosse, WI 54601
- 2) WATER CHEMISTRY MONITORING ON UPPER CATFISH CREEK, MANAGING FOR WATER QUALITY  
B. Bohnsack<sup>1</sup>, O. deSilva<sup>1</sup>, F. Eggers<sup>1</sup>, K. Keehner<sup>1</sup>, T.M. O'Brien<sup>1</sup>, W. O'Brien<sup>1</sup>, T. Rickertsen<sup>1</sup>, A. Satterlee<sup>1</sup>, P. Schwartz<sup>1</sup>, M. Tully<sup>1</sup>, **M. Sinton**<sup>1</sup>, and E. Schmechel<sup>2</sup>. <sup>1</sup>Department of Natural and Applied Sciences, University of Dubuque, Dubuque, IA 52001 <sup>2</sup>Dubuque Soil and Water Conservation District, Epworth, IA 52045
- 3) LONG-TERM TRENDS IN ILLINOIS RIVER WATER QUALITY: REFLECTIVE OF GLOBAL CHANGES?  
**T.R. Cook**, K.S. Irons, M.A. McClelland, G.G. Sass, T. M. O'Hara, N.N Michaels and M.R. Stroub. Illinois River Biological Station, Illinois Natural History Survey, 704 North Schrader Avenue, Havana, Illinois 62644
- 4) THE EFFECTS OF SEDIMENT DRYING AND REWETTING ON NITROGEN CYCLE PROCESSES IN A SMALL STREAM IN THE KANSAS RIVER WATERSHED  
**B.J. Austin**<sup>1</sup>, E.A. Strauss<sup>2</sup>. <sup>1</sup>Department of Biological Sciences, Fort Hays State University, 600 Park St. Hays, Kansas 67601 <sup>2</sup>University of Wisconsin – La Crosse, River Studies Center, 1725 State Street La Crosse, Wisconsin 54601
- 5) NITRATE UPTAKE IN A VEGETATED BACKWATER LAKE IN THE UPPER MISSISSIPPI RIVER: RESULTS OF IN SITU CHAMBER EXPERIMENTS WITH ADDITIONS OF 14NO<sub>3</sub><sup>-</sup> and 15N-NO<sub>3</sub>-TRACER  
**W. Richardson**<sup>1</sup>, R. Kreiling<sup>1</sup>, L. Bartsch<sup>1</sup>, J. Cavanaugh<sup>2</sup>, W. James<sup>3</sup>, and E. Strauss<sup>4</sup>. <sup>1</sup>US Geological Survey Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Rd., La Crosse, WI <sup>2</sup>US Department of Agriculture Natural Resource Conservation Service, St. Peter, MN <sup>3</sup>US Army Corps of Engineers Eau Galle Limnological Research Center, Spring Valley, WI <sup>4</sup>University of Wisconsin, Department of Biology, Rivers Studies Center, La Crosse, WI

**PRIMARY PRODUCERS AND FLOODPLAIN FORESTS**

- 6) INVASIVE PLANT COMMUNITIES IN MISSISSIPPI RIVER FLOODPLAIN FORESTS: A COMPARISON BETWEEN MATURE, REFORESTED, AND NATURALLY REGENERATING STANDS  
**V.A. Barko**<sup>1,2</sup>, L.L. Battaglia<sup>3</sup>, and D.E. Henderson<sup>1</sup>. <sup>1</sup>Open Rivers and Wetlands Field Station, Missouri Department of Conservation, Jackson, MO 63755 <sup>2</sup>John A. Logan College, 700 Logan College Rd., Carterville, IL 62918 <sup>3</sup>Department of Plant Biology, Southern Illinois University, Carbondale, IL 62901
- 7) MONITORING THE PHYTOPLANKTON COMMUNITY DURING A WETLAND RESTORATION AT TNC'S EMIQUON NATURE PRESERVE, HAVANA, IL  
**S.T. Meiers**<sup>1</sup>, S.E. Jenkins<sup>1</sup>, A. Ruskell<sup>1</sup>, S. McClure<sup>2</sup>, and H. Williamson<sup>1</sup>. <sup>1</sup>Department of Biology, Western Illinois University, 1 University Circle, Macomb, IL 61455 <sup>2</sup>The Nature Conservancy, Havana, IL
- 8) TEMPORAL CHANGES IN ORIGIN OF ESSENTIAL INORGANIC NUTRIENTS ASSOCIATED WITH PRIMARY PRODUCERS IN A LARGE RIVER ECOSYSTEM  
**A. Hefty** and M.M. Delong. Large River Studies Center and Biology Department, Winona State University, Winona, Minnesota 55987

**BENTHOS**

- 9) EVALUATION OF THE TOXICITY OF BIOBULLETS AND BIOBULLET DEGRADATION PRODUCTS TO ZEBRA (*DREISSENA POLYMORPHA*) AND BLACK SANDSHELL MUSSELS (*LIGUMIA RECTA*)  
**J.J. Rach**<sup>1</sup> and D. Aldridge<sup>2</sup>. <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin 54603 <sup>2</sup>Cambridge University, Cambridge, United Kingdom CB2 3RA

- 10) SECONDARY PRODUCTION OF TWO DOMINANT MACROINVERTEBRATES INHABITING MAIN-CHANNEL BORDER AND BACKWATER AREAS OF THE UPPER MISSISSIPPI RIVER  
**R. Haro**<sup>1</sup>, R. Northwick<sup>1,2</sup> and W. Richardson<sup>2</sup>. <sup>1</sup>University of Wisconsin - La Crosse, River Studies Center, 1725 State Street La Crosse, Wisconsin 54601 <sup>2</sup>US Geological Survey, Upper Midwest Environmental Science Center, La Crosse, WI 54603
- 11) INVESTIGATING THE FACTORS MODULATING SPECIES INVASIONS AND DISEASE OUTBREAKS IN THE UPPER MISSISSIPPI RIVER  
**G.J. Sandland** and B.A. Walker. Department of Biology and the River Studies Center, University of Wisconsin - La Crosse, La Crosse, WI 54601
- 12)  $\delta D$  AND  $\delta 18O$  AS TRACERS OF MACROINVERTEBRATE ORIGINS AND MOVEMENTS IN MISSISSIPPI RIVER FLOODPLAIN WATER BODIES  
**D.J. Myers**<sup>1</sup>, M.R. Whiles<sup>1</sup> and G.W. Whittedge<sup>2</sup>. <sup>1</sup>Department of Zoology and Center for Ecology, Southern Illinois University, Carbondale, IL 62901-6501 <sup>2</sup>Department of Zoology, Fisheries and Illinois Aquaculture Center, Southern Illinois University, Carbondale, IL 62901-6511

#### **FISH**

- 13) SEASONAL FLUCTUATIONS IN PLASMA STEROID CONCENTRATIONS, EGG DIAMETERS, AND GONADAL STAGE IN SHOVELNOSE STURGEON  
**M.T. Stahl**, A.M. Kelly, and G.W. Whittedge. Department of Zoology, Fisheries and Illinois Aquaculture Center, Southern Illinois University, Carbondale, IL 62901
- 14) LIGHT TRAP STUDY OF LARVAL AND JUVENILE FISH FROM MUD LAKE (UPPER MISSISSIPPI RIVER, POOL 11)  
**A. Butler** and D. Call. Department of Natural & Applied Sciences, University of Dubuque, Dubuque, IA 52001
- 15) HABITAT USE AND MOVEMENT OF JUVENILE LAKE STURGEON IN THE MISSISSIPPI RIVER  
**N.C. Bloomfield**<sup>1</sup>, T.W. Spier<sup>1</sup>, and T. Moore<sup>2</sup>. <sup>1</sup>Western Illinois University, Department of Biological Sciences, Macomb, IL 61455 <sup>2</sup>Missouri Department of Conservation, Hannibal, MO 63401
- 16) THE NATURE CONSERVANCY'S EMIQUON PRESERVE: RESETTING AND RESTORING THE THOMPSON LAKE FISH COMMUNITY  
**N.N. Michaels**<sup>1</sup>, G.G. Sass<sup>1</sup>, T.W. Spier<sup>2</sup>, T.R. Cook<sup>1</sup>, T.M. O'Hara<sup>1</sup>, K.S. Irons<sup>1</sup>, M.A. McClelland<sup>1</sup>, and M.R. Stroub<sup>1</sup>. <sup>1</sup>Illinois River Biological Station, Illinois Natural History Survey, 704 North Schrader Ave, Havana, IL 62644 <sup>2</sup>Department of Biology, Western Illinois University, 1 University Circle, Macomb, IL, 61455
- 17) FISH POPULATION DYNAMICS OF ANNUALLY-FLOODED SEASONALLY-ISOLATED BACKWATER LAKE OF THE ILLINOIS RIVER  
**M.R. Stroub** and G.G. Sass. Illinois River Biological Station, Illinois Natural History Survey, 704 N. Schrader Avenue, Havana, Illinois 62644
- 18) ASIAN CARPS!  
**K.S. Irons**, G.G. Sass, T.R. Cook, T.M. O'Hara, M.A. McClelland, N.N. Michaels, and M.R. Stroub. Illinois River Biological Station, Illinois Natural History Survey, 704 N. Schrader Ave., Havana, Illinois 62644

#### **FOOD WEBS**

- 19) HISTORICAL ANALYSIS OF CHANGES OF RIVERINE PROCESSES IN THE ILLINOIS RIVER THROUGH USE OF STABLE ISOTOPE RATIOS  
**K.M. Delahanty**<sup>1</sup>, M.D. DeLong<sup>1</sup>, J.H. Thorp<sup>2</sup>, and J.R. Anderson<sup>3</sup>. <sup>1</sup>Large River Studies Center, Biology Department, Winona State University, Winona, MN 55987 <sup>2</sup>Kansas Biological Survey, Dept. Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS 66407 <sup>3</sup>Large River Studies Center, College of Science and Engineering, Winona State University, Winona, MN 55987

- 20) HISTORICAL PERSPECTIVE OF THE TROPHIC STRUCTURE OF THE LOWER OHIO RIVER USING STABLE ISOTOPES  
**L. Rice**<sup>1</sup>, M.D. DeLong<sup>1</sup>, J.H. Thorp<sup>2</sup>, and J.R. Anderson<sup>3</sup> <sup>1</sup>Large River Studies Center, Biology Department, Winona State University, Winona, MN 55987 <sup>2</sup>Kansas Biological Survey, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS 66407 <sup>3</sup>Large River Studies Center, College of Science and Engineering, Winona State University, Winona, MN 55987
- 21) TEMPORAL SHIFTS IN UPPER MISSISSIPPI RIVER FOOD WEB DYNAMICS IN RELATION TO HUMAN DISTURBANCES  
**L.M. McIntosh**<sup>1</sup>, M.D. DeLong<sup>1</sup>, J.H. Thorp<sup>2</sup>, and J.R. Anderson<sup>3</sup>. <sup>1</sup>Large River Studies Center, Biology Department, Winona State University, Winona, MN 55987 <sup>2</sup>Kansas Biological Survey, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS 66407 <sup>3</sup>Large River Studies Center, College of Science and Engineering, Winona State University, Winona, MN 55987
- 22) FISH DIET DIFFERENCES BETWEEN TWO DIVERSE RIVER ECOSYSTEMS  
**E.M. Eng** and M.D. DeLong. Large River Studies Center, Winona State University, Winona, MN 55987
- 23) USING STABLE ISOTOPES TO MEASURE CHANGES OVER TIME IN THE MINIMALLY DISTURBED ST. CROIX RIVER: A POTENTIAL GUIDE TO REHABILITATION  
**D.J.Crawford**<sup>1</sup>, M.D. DeLong<sup>1</sup>, J.H. Thorp<sup>2</sup>, and J.Anderson<sup>3</sup>. <sup>1</sup>Large River Studies Center, Biology Department, Winona State University, Winona, MN 55987 <sup>2</sup>Kansas Biological Survey, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS 66407 <sup>3</sup>Large River Studies Center, College of Science and Engineering, Winona State University, Winona, MN 55987
- TURTLES**
- 24) A TURTLE COMMUNITY ON 9-MILE ISLAND IN THE UPPER MISSISSIPPI RIVER NATIONAL WILDLIFE AND FISH REFUGE  
**P.B. Schwartz**, J.W. Meyer, A.R. Butler, M. O'Brien, F.A. Eggers, and G.L. Zuercher. Department of Natural and Applied Science, University of Dubuque, 2000 University Avenue, Dubuque, IA 52001
- WATER FOWL AND MAMMALS**
- 25) CREATION OF AN INTEGRATED WATERBIRD DATABASE FOR THE UPPER MISSISSIPPI RIVER SYSTEM AND ITS POTENTIAL VALUE  
**M.S. Meier**<sup>1</sup> and P.J. Heglund<sup>2</sup>. <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54603 <sup>2</sup>U.S. Fish and Wildlife Service, Region 3 Biological Monitoring and Database Team, La Crosse, WI 54603
- 26) SOUTHERN FLYING SQUIRRELS (*GLAUCOMYS VOLANS*) IN A PROTECTED AREA ALONG THE MISSISSIPPI RIVER IN EASTERN IOWA  
**F.A. Eggers**<sup>1</sup>, P.B. Schwartz<sup>1</sup>, A.R. Butler<sup>1</sup>, G.L. Zuercher<sup>1</sup>, and W. Buchholtz<sup>2</sup>. <sup>1</sup>Department of Natural and Applied Sciences, University of Dubuque, 2000 University Avenue, Dubuque, IA 52001 <sup>2</sup>Mines of Spain Recreation Area, E.B. Lyons Interpretive Center, 8991 Bellevue Heights Road, Dubuque, IA 52003